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IN THE CLAIMS:

The status of the claims is as follows:

1. (original) A method of determining a work function of a metal, comprising the steps of:

forming a metal-on-silicon (MS) Schottky diode with a metal having a work function to be determined forming contacts of the MS Schottky diode;

measuring a capacitance-voltage cure of the MS Schottky diode; and determining the work function of the metal based on the measured capacitance-voltage cure.

- (original) The method of claim 1, wherein the step of forming the MS Schottky
 diode includes depositing the metal on a silicon substrate in accordance with a mask on the
 silicon substrate.
 - 3. (original) The method of claim 2, wherein the mask is a shadow mask.
- 4. (original) The method of claim 2, wherein a first one of the contacts is at least ten times smaller in size than a second one of the contacts.
- 5. (original) The method of claim 4, wherein the step of measuring a capacitance-voltage curve includes contacting the first and second contacts with respective probes of an LCR meter.
- 6. (original) The method of claim 5, wherein the first and second contacts are on the same side of the silicon substrate.
- 7. (original) The method of claim 6, wherein the first contact is at least 100 times smaller in size than the second contact.

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- 8. (original) The method of claim 7, wherein the first contact is at least 800 times smaller in size than the second contact.
- 9. (original) The method of claim 2, wherein a plurality of the contacts are actual capacitor contacts and another one of the contacts is a front contact.
- 10. (original) The method of claim 9, wherein the actual capacitor contacts are different sizes from one another.
- 11. (original) The method of claim 10, wherein each of the actual capacitor contacts have a size that is at least 100 times smaller than the front contact.
- 12. (original) A method of forming Schottky diodes for determining work function of a metal, comprising the steps of:

positioning a shadow mask having holes on a silicon substrate; and

depositing the metal through holes in the shadow mask into the silicon substrate, the holes including at least a first hole with a first cross-sectional area and a second hole with a second cross-sectional area that is at least 100 times greater than the first cross-sectional area.

- 13. (original) The method of claim 12, wherein the holes in the shadow mask are in sets of a repeating pattern.
- 14. (original) The method of claim 13, wherein each pattern includes actual capacitor holes and a front contact hole, the front contact hole being the second hole, and the actual capacitor holes being the first holes.
- 15. (original) The method of claim 14, wherein the actual capacitor holes within each one of the patterns are different sizes from one another.

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- 16. (original) The method of claim 15, wherein each of the actual capacitor holes within each pattern is at least 100 times smaller than the front contact holes.
- 17. (original) The method of claim 16, wherein the front contact hole is approximately .25 in².
- 18. (original) The method of claim 17, wherein a first one of the actual capacitor holes is approximately .02 in in diameter, a second one of the actual capacitor holes is approximately .015in in diameter, and a third one of the actual capacitor holes is approximately .010 in in diameter.